



Interfaces Visualize Data for Airline Safety, Efficiency

Langley Research Center

**WxAnalyst Ltd.
Fairfax, Virginia**

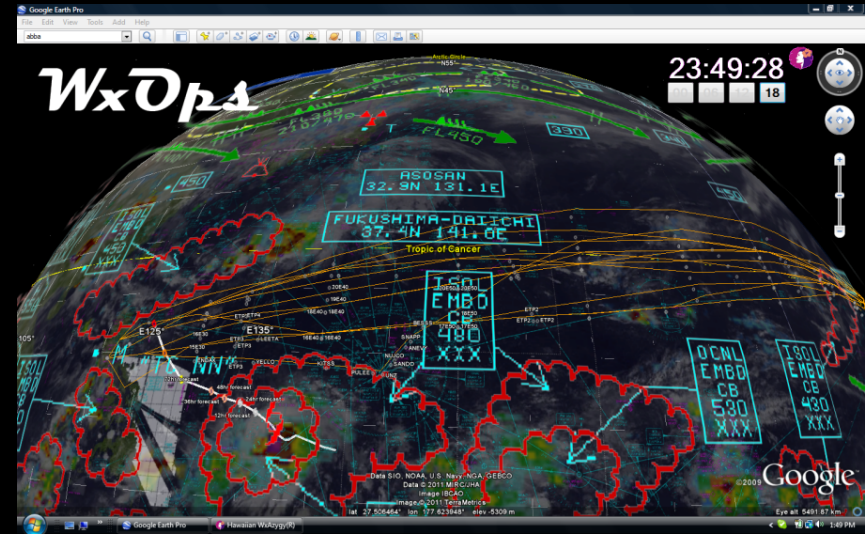
NASA Technology

- ◆ The A-Train Constellation of Earth observing satellites gather data about the composition of the atmosphere to understand the affects on climate
- ◆ The Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO) satellite provides measurements of the altitude of aerosols and clouds

Partnership

- ◆ To construct a transparent user interface to visualize data like that from CALIPSO, Langley Research Center awarded an SBIR award to WxAnalyst Ltd.
- ◆ WxAnalyst's WxAzygy interface was refined so users could see and work with the data over the Earth
- ◆ WxAnalyst obtained additional funding from the National Oceanic and Atmospheric Administration (NOAA) and NASA to improve the technology

Spinoff 2013



Benefits

- ◆ Hawaiian Airlines is now using the software to help see four-dimensional data in the skies and route its planes more efficiently
- ◆ The technology helps the airline manage flights carrying over 6 million passengers a year
- ◆ In the future, WxAzygy may be used to visualize radar and underground data also

Transportation